An ISO 9001 : 2015 & GMP Certified Company 101, Aarkay Ruby Industrial Estate (1B), Opp Shree Narayan Industrial Estate, Chinchpada, Vasai East, Waliv, Maharashtra 401208. Tel : + 91 98200 41841 Email : <u>info@ottokemi.com</u> Web : <u>www.ottokemi.com</u>

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1. Product identifiers

Product name: Hematin Product Code: H 1220 CAS No : 15489-90-4

1.2. Relevant identified uses of the substance or mixture and uses advised against Use : Industrial. For professional use only.

1.3. Details of the supplier of the safety data sheet
Company identification
OTTO CHEMIE PVT LTD
101, Aarkay Ruby Industrial Estate(1B), Opp Shree Narayan Industrial Estate, Chinchpada, Vasai East, Waliv, Maharashtra 401208.
Email <u>info@ottokemi.com</u>

1.4. Emergency telephone number Phone no. : + 91 22 2207 0099 (9:00am - 6:00 pm)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.
2.2 Label elements
Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.
2.3 Other hazards
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances		
Formula	: C34H33FeN4O5	
Molecular weight	: 633,49 g/mol	
CAS-No.	: 15489-90-4	
EC-No.	: 239-518-9	

No components need to be disclosed according to the applicable regulations.

SECTION 4: First aid measures

4.1 Description of first-aid measures
If inhaled
After inhalation: fresh air.
In case of skin contact
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.
In case of eye contact
After eye contact: rinse out with plenty of water. Remove contact lenses.
If swallowed
After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

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5.2 Special hazards arising from the substance or mixture Carbon oxides
Nitrogen oxides (NOx)
Iron oxides
5.3 Advice for firefighters
In the event of fire, wear self-contained breathing apparatus.
5.4 Further information
Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.
For personal protection see section 8.
6.2 Environmental precautions Do not let product enter drains.
6.3 Methods and materials for containment and cleaning up Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.
6.4 Reference to other sections For disposal see section 13.
SECTION 7: Handling and storage 7.1 Precautions for safe handling For precautions see section 2.2.
7.2 Centifications and storage including and storage including and storage including and storage.

7.2 Conditions for safe storage, including any incompatibilities Storage conditions Tightly closed. Dry. Storage stability Recommended storage temperature 2 - 8 °C Storage class Storage class (TRGS 510): 11: Combustible Solids 7.3 Specific end use(s) Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters Ingredients with workplace control parameters 8.2 Exposure controls Personal protective equipment Eye/face protection Use equipment for eve protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses Skin protection This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Full contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L Splash contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min

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Material tested:KCL 741 Dermatril® L Respiratory protection required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type P1 The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented. Control of environmental exposure Do not let product enter drains. **SECTION 9: Physical and chemical properties** 9.1 Information on basic physical and chemical properties a) Physical state solid b) Color No data available c) Odor No data available d) Melting No data available point/freezing point e) Initial boiling point No data available and boiling range f) Flammability (solid, No data available gas) g) Upper/lower No data available flammability or explosive limits

No data available No data available

No data available

No data available Viscosity, kinematic: No data available Viscosity, dynamic: No data available insoluble No data available

No data available No data available No data available No data available

No data available

No data available No data available

SECTION 10: Stability and reactivity 10.1 Reactivity No data available 10.2 Chemical stability The product is chemically stable under standard ambient conditions (room temperature). 10.3 Possibility of hazardous reactions No data available 10.4 Conditions to avoid no information available 10.5 Incompatible materials Strong oxidizing agents, Strong acids

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h) Flash point i) Autoignition

temperature j) Decomposition

temperature k) pH

I) Viscosity

p) Density

density r) Particle

m) Water solubility

n-octanol/water o) Vapor pressure

Relative density

q) Relative vapor

characteristics s) Explosive properties

t) Oxidizing properties

No data available

9.2 Other safety information

n) Partition coefficient:

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10.6 Hazardous decomposition products In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects		
	Dermal contact. Eye contact. Toxicity to Animals:	
Oral LD50 Rat: 1500 mg/kg; Dermal LD	50 Rabbit: 2000mg/kg	
Inhalation LC50 Rat: > 50mg/L.		
	GENIC EFFECTS: Classified None. by NTP, None. by	
	ous in case of skin contact (irritant), of inhalation (lung	g irritant).
Special Remarks on Toxicity		
to Animals: Not available. Special Remarks on Chronic Effects on	Humans: Not available	
Special Remarks on other Toxic Effects		
SECTION 12: Ecological information		
12.1 Toxicity		
No data available		
12.2 Persistence and degradability		
No data available		
12.3 Bioaccumulative potential No data available		
12.4 Mobility in soil		
No data available		
12.5 Results of PBT and vPvB assessm	ent in the second se	
This substance/mixture contains no com	ponents considered to be either persistent,	
	<pre>y persistent and very bioaccumulative (vPvB) at</pre>	
levels of 0.1% or higher.		
12.6 Endocrine disrupting properties		
Product: Assessment : The substance/mix	kture does not contain components	
	endocrine disrupting properties	a start and a start a s
	H Article 57(f) or Commission	0.4
	n (EU) 2017/2100 or Commission	
	18/605 at levels of 0.1% or higher.	
12.7 Other adverse effects		
No data available		
SECTION 13: Disposal considerations		
13.1 Waste treatment methods Product		
See www.retrologistik.com for processe	s regarding the return of chemicals and	
containers, or contact us there if you have		
SECTION 14: Transport information		
14.1 UN number		
ADR/RID: -	IMDG: -	IATA: -
14.2 UN proper shipping name		
ADR/RID : Not dangerous god IMDG : Not dangerous god		
IMDG : Not dangerous goo IATA : Not dangerous goo		
14.3 Transport hazard class(es)	Jus	
ADR/RID: -	IMDG: -	IATA: -
14.4 Packaging group		
ADR/RID: -	IMDG: -	IATA: -
14.5 Environmental hazards		
ADR/RID: no	IMDG Marine pollutant: no	IATA: no
14.6 Special precautions for user		
Further information	ing of transport regulations	
Not classified as dangerous in the mean	ing or transport regulations.	

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the

substance or mixture

This material safety data sheet complies with the requirements of Regulation (EC) No.

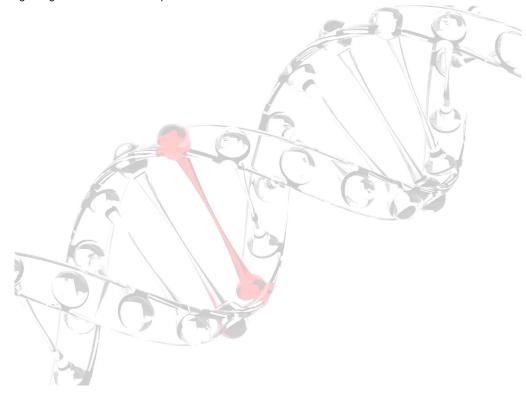
1907/2006.

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.



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